



DIGITALLY CORRECTED SUBMERSIBLE PRESSURE TRANSDUCER

Model 8500

Designed for the tough challenges and environmental rigors of oilfield, downhole, and deep sea ocean applications.

FEATURES:

- Submersible to 22,000 feet seawater (options may affect operating depth)
- Optional reference standards, PSIA, PSIS, PSIG, PSID
- 0-5 Vdc Isolated or 0-10 Vdc Isolated digitally corrected output
- Cavity material options for special environments
- High accuracy, 0.08% RSS standard (0.05% RSS available)
- Designed for over 1,000,000 continuous cycles
- Serial port (RS-232) controlled zero & span adjustment



- Depth / Level Sensing
- Seawater Submersible, DSRV's and ROV's
- Oil Platform and Downhole Applications
- Ocean Pump Stations

Heritage Includes

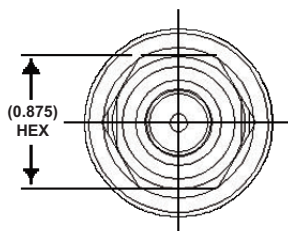
- University of Texas
- Woods Hole Oceanographic Institute
- Phoenix International

All GP:50 Aerospace differential transducers are manufactured and tested to the following MIL-STD and MIL-Spec standards to insure the highest quality assurance:

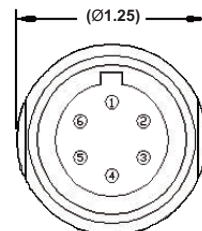
- NIST Traceability and Calibration..... MIL-STD-45662A
- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2000

Transducer Design Meets: MIL-STD-810F
MIL-STD-461E

SEE INSTALLATION MANUAL FOR PINOUT ASSIGNMENT BASED ON ELECTRONICS OPTIONS



0-5 VOLTS PIN OUT FOR OPTIONS 4, 6	
A/1	+ EXC.
B/2	+ SIGNAL
C/3	- SIGNAL
D/4	- EXC.
E/5	RS 232 TX
F/6	RS 232 TX



GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Ranges	50 thru 15,000 PSIA, PSIG, PSISG options
FS Output at Rated Pressure	0-5 Vdc Isolated or 0-10 Vdc Isolated Digitally corrected output
Proof Pressure	1.5X
Burst Pressure	3.0X
Excitation or Input Voltage Reverse Polarity Protected	+10 thru +15 Vdc nonisolated, +18 thru +36 Vdc isolated
Non-Repeatability	<0.04% FSO
Non-Linearity	<0.05% FSO
Hysteresis	<0.05% FSO
Thermal Error	Zero 0.225% / 100F Span 0.225% / 100F
Static Accuracy RSS	<0.08% FSO RSS, 0.05% optional
Total Error	(All 5 Parameters) <0.5%
Wetted Materials	316SS (Inconel, Hastelloy, Monel optional)
Temperature Compensation	-10°F to +180°F / -20°C to +80°C expanded range optional
Operating/Environmental Temperature	-20°F to +190°F / -30°C to +90°C,
Weight	8 oz. (some options may affect weight)
Pressure Port	SAE 4 (M), options available
Electrical Connector	SEACON XSEE-6-BCR 6 pin connector
Shunt Cal 80% optional	Internal
Response Time	500 ms (12 BIT Processor)
Meets MIL-STD-461 EMI/RFI	Some options will affect EMI/RFI rating

ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.
Use the following codes to identify desired item.

MODEL	OUTPUT	RANGE	PRESSURE TYPE	OPTIONS
●	—	●	—	●

Example: 8500-4-RH-A-DF/FJ

OUTPUT

2	0-5 Vdc 4 wire (Non-Isolated)
4	0-5 Vdc 4 wire (Isolated)
5	0-10 Vdc 4 wire (Non-Isolated)
6	0-10 Vdc Isolated
9	0-5 Vdc 3 wire (Non-Isolated)
10	0-10 Vdc 3 wire (Non-Isolated)

RANGE (PSI)

PV	0-50	RO	0-1500
PZ	0-100	RR	0-2000
RB	0-150	RT	0-3000
RD	0-200	RV	0-5000
RF	0-300	RX	0-7500
RH	0-500	RZ	0-10,000
RK	0-750	SB	0-15,000
RM	0-1000		

Contact factory for non-standard pressure ranges

PRESSURE TYPE

A	Absolute, ref to vacuum
SG	Sealed Gauge, ref to 14.7 psia

OPTIONS

CONNECTORS

DF	XSEE-6-BCR (standard)
DG	XSJJ-7-BCR

PORTS

FA	MS33649-4, 7/16-20 (F)
FD	MS33656-4, 7/16-20 (M)
FJ	1/4" NPT

MISC:

D	Improved Static Accuracy to 0.05%
GB	Alternate Full Scale Outputs
GD	10X Proof Pressure (may affect overall performance, not available with options D,GF,GK,GP)
GF	Expanded process temperature range, -65 to 250°F (±1% FSO/100°F)
GK	Inconel Pressure Cavity
GL	Cleaning for oxygen service
GP	Hastelloy Pressure Cavity
MS	Bi-Directional
QU	Monel Pressure Cavity
MR	Non-Standard Wiring

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